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Man and the land
in Glacier County,
Montana

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Man and the Land

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Supplement to Conservation Needs Inventory by Practices—
March, 1963

A good deep soil will produce crops for many generations—

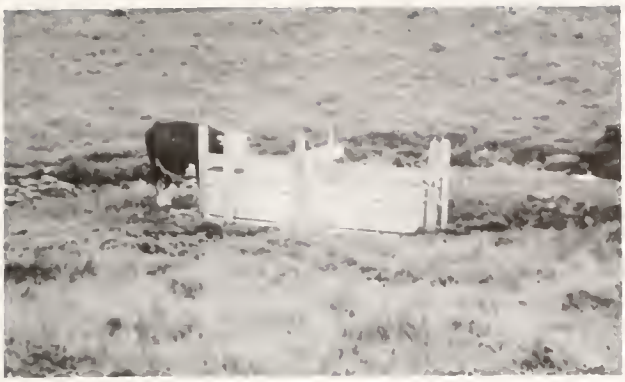
Unless one member of one generation fails to honor the needs of the land.

DRY CROPLAND — 300,000 Acres

Practice	Unit	Now on Land	Increase Needed
Diversion Ditches	Miles	7	15
Diversion Dams	Number		40
Grass Waterways	Acres	149	2,000
Stream Bank Protection	Miles	2	7
Strip Cropping on Contour	Acres	1,167	5,000
Strip Cropping Across Slope	Acres		15,000
Strip Cropping Wind	Acres	233,000	50,000
Seeding to Hay and Pasture (Class IV land in rotation)	Acres		16,767
Stubble Mulching (annually)	Acres	40,000	110,000
Hayland Planting	Acres	10,000	Operator Decision
Pasture Planting	Acres	4,395	1 Acre Per Cow

IRRIGATED CROPLAND (ALSO HAY AND PASTURE) — 12,000 Acres

Drain Ditches	Miles	5	15
Irrigation Field Ditches	Miles		5
Irrigation Land Leveling	Acres	454	5,546
Land Smoothing (to improve contour ditch layout)	Acres		2,000
Irrigation Storage Reservoirs	Number	6	12
Irrigation Systems, Sprinkler	Number	6	20
Irrigation Water Management	Acres		12,000
Structures for Water Control	Number	62	2,000
Hayland Planting	Acres	3,600	2,400
Pasture Planting	Acres	2,000	4,000
Proper Pasture Use	Acres	400	5,600



A spring development can provide a uniform flow of clean water at all seasons. Its supply does not hinge on periods of runoff.

Some areas have good sites for storage dams. Springs and dams aid in obtaining uniform grazing. They will not correct a problem of "Too many cows and too little grass."

RANGELAND — 1,030,000 Acres

Practice	Unit	Now on Land	Increase Needed
Brush and Weed Control	Acres	———	5,000
Farm Ponds	Number	139	150
Farm Ponds (Fish, wildlife and recreation)	Number	1	12
Cross Fencing	Miles	———	1,300
Deferred Grazing	Acres	———	550,000
Range Proper Use	Acres	280,000	750,000
Range Seeding (Class VI land now in crop)	Acres	———	10,593
Spring Developments	Number	39	100
Waterspreading	Acres	1,014	2,894
Wells	Number	50	25

Old boards and torn canvas dams by a water turnout indicate that the irrigator fought a "losing battle." Permanent water control structures are one of the "musts" in an efficient irrigation system.

Land Planning and Border Diking are the "finishing touches" on the land before seeding hay or pasture. These operations are a "must" after land leveling for the most efficient use of available water.

Mr. and Mrs. Richard Doorenbos challenged the elements to establish a complete farmstead windbreak. They have now passed beyond the reach of drought and winter storms but the results of their labor lives on.

Give this new dam a few years to develop vegation cover along its shoreline and its fish to grow. There will be no better place to meditate on the relationship of water, man, soil and all species of plant and animal life.

WILDLIFE —

Practice	Unit	Now on Land	Increase Needed
Fish Pond Stocking	Number	10	30
Wildlife Habitat Development	Acres	——	400
Wildlife Habitat Preservation	Acres	——	800
Wildlife Wetland Preservation	Acres	——	400

WOODLAND — 120,000 Acres

Farmstead and Feedlot Windbreaks	Acres	203	500
Field Windbreaks (2 acre/mile)	Acres	8	400
Woodland Harvest Cutting	Acres	——	17,000
Woodland Proper Grazing	Acres	——	68,000
Pruning and Thinning	Acres	——	12,000
Aspen Destruction (Seed to grass or timber)	Acres	——	20,000

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